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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 514413-3768 9453 08/10/1999 ERWIN HACKER 09/371,612 EXAMINER 20999 07/16/2004 FROMMER LAWRENCE & HAUG CLARDY, S 745 FIFTH AVENUE- 10TH FL. ART UNIT PAPER NUMBER NEW YORK, NY 10151

DATE MAILED: 07/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Symmetry Symmetry		Application No.	Applicant(s)	
Examiner S. Mark. Clardy -The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE of THIS COMMUNICATION. Laterations of time may be analistic under the previsions of 37 CPR 1.155(a). Inn overul, however, may a reply be trierly filed Lift by period for rely is pacified above, the maximum staintony period will apply and will explose SN (8) MONTH(S) FROM THIS period for rely is pacified above, the maximum staintony period will apply and will explose SN (8) MONTH Strom her mailing date of this Communication of the scanned patient term sequenced as the thin their comminish star the maining date of the communication, even if timely filled, may reduce any seasoned patient term sequenced by the Citics that the term term of the term the maining date of the communication, even if timely filled, may reduce any seasoned patient term sequenced by the Citics that the term term of the term term of the communication, even if timely filled, may reduce any seasoned patient term sequenced by the Citics that the maining date of the communication, even if timely filled, may reduce any seasoned patient term sequenced by the Citics that the maining date of the communication, even if timely filled, may reduce any seasoned patient term sequenced by the communication of the communic				
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action of form PTO-132.			
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Claims 16, 23-37, and new claims 38-42 are pending in this application.

Note that claim 25 (withdrawn from consideration as being drawn to a non-elected species) is dependent on a canceled claim.

Applicants' claims are drawn to compositions and methods of using herbicidal compositions comprising the synergistic combination of A + B herbicides (see exceptions in the claim 23 proviso):

A) a broad spectrum herbicide

A1: glufosinate¹

A2: glyphosate²

A3: imidazolinones (imazethapyr³, imazaquin⁴, imazamox⁵, imazapyr⁶)

A4: protoporphyrinogen oxidase (PPO) inhibitors);

B) a second herbicide, except as noted (with optional safener):

B1: trifluralin, metribuzin, clomazone, pendimethalin, metolachlor, flumetsulam, dimethenamid, alachlor, linuron, sulfentrazone, ethalfluralin, fluthiamide, norflurazone, vernolate, flumioxazin

B2: chlortoluron, bentazone, thifensulfuron, oxyfluorfen, lactofen, fomesafen, flumichlorac, acifluorfen, 2,4-DB, 2,4-D, chlorimuron, diclosulam, fluthiacet, cloransulam, oxasulfuron

B3: sethoxydim, cycloxydim, clethodim

¹Excluded B herbicides: cloransulam, metolachlor, metribuzin, chlorimuron, dimethenamid, pendimethalin, bentazone, clomazone, thifensulfuron, flumichlorac, flumetsulam, linuron, sethoxydim, acifluorfen, fomesafen, sulfentrazone, flumioxazin, lactofen, fenoxaprop-P

²Excluded B herbicides: metolachlor, dimethenamid, metribuzin, chlorimuron, pendimethalin, bentazone, linuron, aciflurfen

³Excluded B herbicides: metolachlor, bentazone, clomazone, thifensulfuron, flumiclorac, pendimethalin, trifluralin, sulfentrazone, lactofen, dimethenamid, aciflurfen, fenoxaprop-P

⁴Excluded B herbicides: pendimethalin, trifluralin, metolachlor

⁵Excluded B herbicides: bentazone and trifluralin

⁶Excluded B herbicide: metolachlor

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B4: quizalofop, fenoxaprop, fluazifop, haloxyfop, propaquizafop

B5: paraquat.

Again, in Paper No. 9, applicant elected with traverse of the species comprising glufosinate-ammonium⁷ (A1.2). Examination has been expanded beyond the originally elected B component (cloransulam-methyl⁸, B2.12) to encompass all B herbicides. In the discussion below, the parenthetical identifiers (A#.#) or (B#.#) refer to applicants' herbicide designations, e.g., glufosinate (A1.2).

Claims 16, 25, 29-31, and 35-37 remain withdrawn as being drawn to a non-elected species (A is glyphosate). Note that glufosinate is a glutamine synthetase inhibitor which interferes with the assimilation of inorganic nitrogen, while glyphosate is a 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS) inhibitor which interferes with the shikimate pathway in aromatic amino acid synthesis.

Claims 23, 24, 26-28, 32-34, and 38-42 have been examined only insofar as they read on the elected species (glufosinate + B herbicides).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

⁷Ammonium 2-amino-4-(hydroxymethylphosphinyl)butanoate

⁸ 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5c]pyrimidin-2-yl)sulfonyl]amino]benzoic acid

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subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23, 24, 27, 28, 38, 39, 41, and 42 are rejected under 35 U.S.C. 102(a) and (e) as being anticipated by Lee et al (US 6,586,367).

Lee et al teach the synergistic combination of phospho-herbicides such as glufosinate (and the non-elected glyphosate) with additional herbicidal agents including dimethenamide, metolachlor, propaquizafop, and norflurazone, among others (abstract), in soybean crops (col 7, lines 12).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23, 24, 26-28, 32-34, and 38-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (cited above). Lee et al teach the combination of glufosinate with herbicides within applicants' B classes. It would have been within the skill level of the ordinary artisan to select additional related herbicides to combine with glufosinate for the control of weeds in crops such as soybeans. Further, it is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose; the idea of combining them flows logically from their having been individually taught in the prior art. In re Kerkhoven, 205 USPQ 1069. One of ordinary skill in the art would have the requisite skill to select appropriate secondary herbicides based upon the known herbicidal spectrum of activity of the second herbicide to enhance the herbicidal utility of the combination.

In view of the synergistic results disclosed in Lee et al, it would appear that data demonstrating synergistic results for glufosinate combinations would be expected from the prior art.

No claim is allowed.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is 703-308-4550. The examiner can normally be reached on 7:20 - 3:50.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 308-2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

S. Mark Clardy

Primary Examiner Art Unit 1616